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PATENT  
ATTORNEY DOCKET NO.: 053665-5010-01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Louis S. KUCERA et al.

Confirmation No.: 2151

Application No.: 09/844,201

Group Art Unit: 1623

Filed: April 27, 2001

Examiner: Howard Owens, Jr.

For: COMPOSITIONS AND METHODS OF  
DOUBLE-TARGETING VIRUS  
INFECTIONS AND CANCER CELLS

Attorney Docket No.: 053665-5010-01

**LETTER REGARDING SUPPLEMENTAL INFORMATION DISCLOSURE**  
**STATEMENT SUBMITTED ON OCTOBER 12, 2004**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

Pursuant to Applicants' duty of disclosure under 37 C.F.R. § 1.97 and 1.98, Applicants submitted a Supplemental Information Disclosure Statement and Form PTO-1449 for the above-identified matter on October 12, 2004 (copy and copy of stamped postcard attached hereto). It is Applicants understanding that somehow the references submitted with the Supplemental Information Disclosure Statement were separated from the Supplemental Information Disclosure Statement. It is also Applicants understanding that the references are currently in the possession of Ms. Linda Poingue of the United States Patent and Trademark Office. Applicants respectfully request that the Supplemental Information Disclosure Statement and Form PTO-1449 for the above-identified matter submitted on October 12, 2004 be connected with the box of references currently in Ms. Poingue's possession.

In addition, Applicants inadvertently did not submit copies of the U.S. patents cited on the PTO-1449 submitted with the October 12, 2004 Supplemental Information Disclosure Statement. Accordingly, Applicants attach hereto copies of each of the U.S. patents cited on the

PTO-1449 submitted with the October 12, 2004 Supplemental Information Disclosure Statement.


No fee is believed to be due for this submission. If any fees are due, please charge the required fees to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310.

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

Dated: October 13, 2004

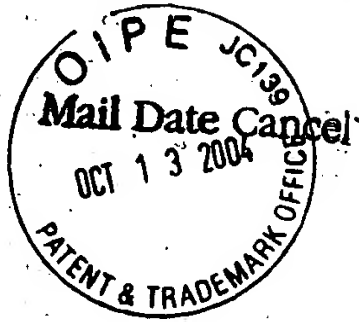
By:  
for

  
Paul E. Dietze

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PLEASE STAMP AND RETURN TO SHOW RECEIPT OF:

In re APPLICATION of:

\*\*INVENTOR: Louis S. KUCERA et al.

Appln. No.: 09/844,201

Filed: April 27, 2001

FOR: COMPOSITIONS AND METHODS OF DOUBLE  
TARGETING VIRUS INFECTIONS AND  
CANCER CELLS

Group No.: 1623

Examiner: Howard V. Owens, Jr.

- 
1. Information Disclosure Statement with PTO-1449 with one box of references and with authorization to charge to Deposit Account No. 50-0310 in the event the PTO deems a fee is necessary

Attorney Docket No.: 053665-5010-01

Dated: October 12, 2004

PED/ats

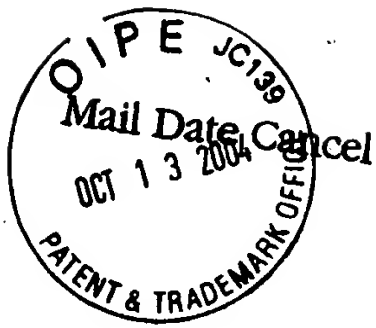


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**DOCKETED**

By 526 Date 10-13-04



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Attorney Docket No.: 053665-5010-01

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

Pursuant to Applicants' duty of disclosure under 37 C.F.R. § 1.97 and 1.98, enclosed is a supplemental Form PTO-1449 which lists 217 references. Copies of the foreign patent documents and other references are enclosed for the Examiner's convenience. Pursuant to the rules pertaining to applications filed after June 30, 2003, copies of the U.S. references are not enclosed.

It is respectfully requested that these references be made of record in this application by the Examiner's completion and return of the Form PTO-1449.

This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c), *i.e.*, before the mailing of a final action under 37 C.F.R. § 1.113. Under 37 C.F.R. §1.97(c)(2) and 37 C.F.R. § 1.17 (p), a fee of \$ 180.00 is due for this submission. Please charge this and any other fee the U.S. Patent and Trademark Office deems is required to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310.

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

Dated: October 12, 2004

By:  
~~For~~

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## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	2,086,585	07/13/1937	Taub et al.	260	127	
	A02	2,087,132	07/13/1937	Taub et al.	260	127	
	A03	2,108,765	02/15/1938	Domagk	167	30	
	A04	2,209,383	07/30/1940	Bock	8	116	
	A05	2,439,969	04/20/1948	Fourneau	260	338	
	A06	2,445,393	07/20/1948	Fourneau	260	338	
	A07	2,513,747	07/04/1950	Sallman et al.	260	338	
	A08	2,606,909	08/12/1952	Blicke	260	338	
	A09	2,689,790	09/21/1954	Mowry et al.	71	2.7	
	A10	2,950,253	08/23/1960	Kling et al.	252	152	
	A11	3,054,678	09/18/1962	Michener et al.	99	150	
	A12	3,694,473	09/26/1972	Eibl et al.	260	403	
	A13	4,093,714	06/06/1978	Tolman et al.	424	180	
	A14	4,096,278	06/20/1978	Queuille	424	329	
	A15	4,119,714	10/10/1978	Kny et al.	424	199	
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	A19	4,291,024	09/22/1981	Turcotte	424	180	
	A20	4,329,302	05/11/1982	Hanahan et al.	260	925	
	A21	4,426,525	01/17/1984	Hozumi et al.	546	22	
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	A23	4,471,113	09/11/1984	MacCoss	536	29	
	A24	4,540,521	09/10/1985	Garst et al.	260	459	
	A25	4,619,917	10/28/1986	Lee et al.	514	77	
	A26	4,622,392	11/11/1986	Hong et al.	536	28.5	

EXAMINER

DATE CONSIDERED

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	A28	4,724,232	02/09/1988	Rideout et al.	514	50	
	A29	4,797,479	01/10/1989	Shuto et al.	536	28.5	
	A30	4,816,450	03/28/1989	Bell et al.	514	25	
	A31	4,826,823	05/02/1989	Cook et al.	514	46	
	A32	4,835,263	05/30/1989	Nguyen et al.	536	27	
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	A34	4,841,039	06/20/1989	Chu et al.	536	29	
	A35	4,880,782	11/14/1989	Eckstein et al.	514	45	
	A36	4,921,951	05/01/1990	Shuto et al.	536	28.5	
	A37	4,997,761	03/05/1991	Jett-Tilton	435	375	
	A38	5,026,687	6/25/1991	Yarchoan et al.	514	45	
	A39	5,034,394	07/23/1991	Daluge	514	261	
	A40	5,138,045	08/11/1992	Cook et al.	536	27	
	A41	5,221,696	06/22/1993	Ke et al.	514	786	
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	A44	5,633,388	05/27/1997	Diana et al.	548	305.7	
	A45	5,770,584	06/23/1998	Kucera et al.	514	77	
	A46	5,830,905	11/03/1998	Diana et al.	514	322	
	A47	5,846,964	12/08/1998	Ozeki	514	182	
	A48	5,891,874	04/06/1999	Colacino et al.	514	234.5	
	A49	5,922,757	07/13/1999	Chojkier	514	458	
	A50	5,962,437	4/30/1999	Kucera et al.	514	77	
	A51	6,030,960	02/29/2000	Morris-Natschke et al.	514	77	

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### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	B01	0 094 586	11/23/1983	EPO (English)				
	B02	0 109 255	05/23/1984	EPO (English)				
	B03	0 142 333	05/22/1985	EPO (English)				
	B04	0 145 303	06/19/1985	EPO (English)				
	B05	0 146 258	06/26/1985	EPO (English)				
	B06	0 252 310	01/13/1988	EPO				
	B07	0 310 109	04/05/1989	EPO (English)				
	B08	0 335 396	04/10/1989	EPO (English)				
	B09	0 350 287	01/10/1990	EPO				
	B10	0 348 859	01/03/1990	EPO (English)				
	B11	0 416 401	03/13/1991	EPO				
	B12	0 434 450	06/26/1991	EPO (English)				
	B13	0 506 704	07/11/1991	EPO				
	B14	0 632 048	01/04/1995	EPO (English)				
	B15	1,561,630	03/28/1969	France				
	B16	199 14 474	10/07/1999	Germany				
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	B18	39 34 820 A1	04/25/1991	Germany				
	B19	40 10 228 A1	10/02/1991	Germany				
	B20	2 239 243 A	06/26/1991	Great Britain				

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							YES	NO
	B21	42-13841	08/05/1967	Japan				
	B22	61-238793	10/24/1986	Japan				
	B23	1029312	01/31/1989	Japan				
	B24	49-100224	09/21/1974	Japan				
	B25	08-268890	10/15/1996	Japan				
	B26	10-101591	04/21/1998	Japan				
	B27	90/00555	01/25/1990	WIPO				
	B28	90/05736	05/31/1990	WIPO (English)				
	B29	90/15601	12/20/1990	WIPO (English)				
	B30	91/05558	05/02/1991	WIPO				
	B31	91/09602	07/11/1991	WIPO				
	B32	91/19726	12/26/1991	WIPO				
	B33	91/18914	12/12/1991	WIPO (English)				
	B34	92/03462	03/05/1992	WIPO				
	B35	92/06192	04/16/1992	WIPO (English)				
	B36	93/08807	05/13/1993	WIPO (English)				
	B37	93/00910	01/21/1993	WIPO				
	B38	93/16091	08/19/1993	WIPO				
	B39	93/16092	08/19/1993	WIPO				
	B40	93/17020	09/02/1993	WIPO (English)				
	B41	93/21191	10/28/1993	WIPO (English)				
	B42	WO 94/28908	12/22/1994	WIPO				
	B43	WO 98/22496	5/28/1998	WIPO (English)				
	B44	WO 98/17679	4/30/1998	WIPO (English)				
	B45	WO 99/07734	2/18/1999	WIPO (English)				

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**OTHER REFERENCES** (Including Author, Title, Date, Pertinent Pages, Etc.)

C01	Aggarwal, S. K. et al., "Synthesis and Biological Evaluation of Prodrugs of Zidovudine," <u>J. Med. Chem.</u> , 33, 1505-10, 1990
C02	Alt M. et al., "Core Specific Antisense Phosphorothioate Oligodeoxynucleotides as Potent and Specific Inhibitors of Hepatitis C Viral Translation," <u>Archives of Virology</u> 142:589-599, 1997
C03	Alt M. et al., "Specific Inhibition of Hepatitis C Viral Gene Expression by Antisense Phosphorothioate Oligodeoxynucleotides," <u>Hepatology</u> 22:707-717, September 1995
C04	Amari et al., "Isolation of Experimental Anti-AIDS Glycerophospholipids by Micro-Preparative Reversed-Phase High-Performance Liquid Chromatography," <u>Journal of Chromatography</u> , 590, 153-161, 1992
C05	Anderson, L. J. et al., "Antigenic Characterization of Respiratory Syncytial Virus Strains with Monoclonal Antibodies," <u>Journal of Infectious Diseases</u> , 151:626-633, April 1985
C06	Attwood, M. R. et al., "The Design and Synthesis of Potent Inhibitors of Hepatitis C Virus NS3-4A Proteinase," <u>Antiviral Chemistry and Chemotherapy</u> 10:259-273, September 1999
C07	Berdel et al., "Cyto Toxicity of Thio Ether Lyso Phospho Lipids in Leukemias and Tumors of Human Origin," <u>Cancer Research</u> , Vol. 43, 5538-5543, 1983.
C08	Berenguer, M. et al., "Hepatitis C Virus in the Transplant Setting," <u>Antiviral Therapy</u> 3(Suppl. 3):125-136, 1998
C09	Boldanova, N. B. et al., "Protective Effect of Phosphatidylcholine-Containing Liposomes in Experimental Toxic Hepatitis," <u>Vopr. Med. Khim</u> , 32, No. 3 (1986) Chemical Abstracts 105, p. 67, Abstract No. 35587k (1986)
C10	Bosies, E. et al., "Preparation of Lecithin Analogs as Retrovirucides and Virucides," <u>Chemical Abstracts</u> , 115CA; 72142p, 1991
C11	Chen, "Design and Synthesis of Novel Nucleoside Analogs as Potential Antiviral Agents," Abstract <u>American Assoc. of Pharmaceutical Scientists</u> , Vol. 9, No. 10, 1992
C12	Chu M. et al., "Isolation and Structure of SCH 351633: A Novel Hepatitis C Virus (HCV) NS3 Protease Inhibitor from the Fungus <i>Penicillium Griseofulvum</i> ," <u>Bioorganic and Medicinal Chemistry Letters</u> 9:1949-1952, 1999
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C14	Coe et al., "Preparation of Nucleotide Mimics with Potent Inhibitory Activity Against HIV Reverse Transcriptase," <u>J. Chem. Soc. Perkin Trans 1</u> , 3378-3379, 1991.
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C16	Daniel, L. W. et al., "Alkyl-Linked Diglycerides Inhibit Protein Kinase C Activation by Diacylglycerols," <u>Biochemical &amp; Biophysical Research Communications</u> , 151, 291-97, Feb. 29, 1988
C17	Dietzfelbinger, "Cytotoxic and Purging Effects of ET-18-OCH3 in Human Malignant Lymphoid Cell Lines in Vitro," Abstract 2472, <u>Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416, March 1990
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OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	C19	Englund, J. A., "Prevention Strategies for Respiratory Syncytial Virus: Passive and Active Immunization," <u>J. Pediatr.</u> , 135:38-44, August 1999
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	C21	Falsey A. R. et al., "Viral Respiratory Infections in the Institutionalized Elderly: Clinical and Epidemiologic Findings," <u>J Am Geriatric Soc.</u> , 40:115-119, 1992
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	C23	Galderisi U. <i>et al.</i> , "Antisense Oligonucleotides as Therapeutic Agents," <u>Journal of Cellular Physiology</u> , 181:251-257, 1999
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	C25	Graham, F. L. et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5-DNA," <u>Virology</u> , Vol. 52, pp. 456-467, 1973
	C26	Guerguerian, A. et al., "Ribavirin in Ventilated Respiratory Syncytial Virus Bronchiolitis: a Randomized, Placebo-Controlled Trial," <u>Am J Resp Crit Care Med.</u> , 160:829-834, 1999
	C27	Hall C. B. et al., "Infectivity of Respiratory Syncytial Virus by Various Routes of Inoculation," <u>Infect Immun.</u> , 33:779-783, 1981
	C28	Hall, C. B. et al., "Nosocomial Respiratory Syncytial Virus Infections," <u>N Engl J Med.</u> , 293:1343-1346, 1975
	C29	Hall C. B. et al., "Respiratory Syncytial Virus Infections Within Families," <u>N Engl J Med</u> , 294:414-419, 1976
	C30	Hancock et al., "Analogues of Natural Lipids. VII. Synthesis of Cyclopentanoid Analogues of Phosphatidylcholine," <u>Journal of Lipid Research</u> , Vol. 23, 183-189, 1982
	C31	Harada, S. et al., "Infection of HTLV-III/LAV in HTLV-I-Carrying Cells MT-2 and MT-4 and Application in a Plaque Assay," <u>Science</u> , 229, 563-566, 9 Aug. 1985
	C32	Hayashi et al., "Antitumor Activity of a Novel Nucleotide Derivative, 5'-(1,2 Dipalmitoyl-sn-glycero-3-phospho)-5-fluorouridine (TJ14026) on Murine Tumors," <u>Biol. Pharm. Bull.</u> , 16(8), 778-81, 1993
	C33	Henderson, F.W. et al., "Respiratory-Syncytial-Virus Infections, Reinfections, and Immunity: a Prospective, Longitudinal Study in Young Children," <u>N Engl J Med.</u> , 300:530-534, 1979
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C35	Hirsch, M. S. et al., "Antiviral Agents," <u>Fields Virology</u> , Third Edition, Lippincott, Raven Publishers, page 431-466, 1996	
C36	Hostetler, et al., "Antiviral Activity of Phosphatidyl-Dideoxycytidine in Hepatitis B-infected Cells and Enhanced Hepatic Uptake in Mice," <u>Antiviral Research</u> , 59-65, 1994	
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